

AMENDMENTS TO THE CLAIMS

Claims 1-17 (Canceled)

Claim 18 (New) An actuator for an optical pickup which includes a lens member having an outermost end portion in a diametrical direction of said lens member and an optical axis, said actuator comprising:

a track coil for driving the lens member to move, in the diametrical direction, inward or outward with respect to an optical disk;

wherein at least part of said track coil is in a position closer to the optical axis of the lens member than the outermost end portion of the lens member.

Claim 19 (New) An actuator for an optical pickup comprising:

magnets placed in such a manner that magnetic pole surfaces of said magnets face each other;

a focus coil for driving a lens member to move toward or away from an optical disk;

a track coil for driving the lens member in a diametrical direction of the lens member inward or outward with respect to an optical disk;

wherein at least one of said focus coil and said track coil has a wound line shape that includes first sides thereof facing and parallel to said magnetic pole surfaces of said magnets and second sides thereof that interconnect ends of said first sides, said second sides each bulging outwardly, in a diametrical direction of the respective said coil, from ends of said second sides adjoining said first sides toward a portion of said second sides between said ends of said second sides.

Claim 20 (New) The actuator of claim 19, wherein said wound line shape is a hexagon.

Claim 21 (New) An actuator for an optical pickup which includes a lens member having an outermost end portion in a diametrical direction of the lens member and an optical axis, said actuator comprising:

magnets placed in such a manner that magnetic pole surfaces of said magnets face each other;

a focus coil for driving the lens member to move toward or away from an optical disk; and
a track coil for driving the lens member in a diametrical direction of said lens member inward or outward with respect to an optical disk;

wherein at least part of said track coil is in a position closer to the optical axis of the lens member than said outermost end portion of the lens member; and

wherein at least one of said focus coil and said track coil has a wound line shape that includes first sides thereof facing and parallel to said magnetic pole surfaces of said magnets and second sides thereof that interconnect ends of said first sides, said second sides each bulging outwardly, in a diametrical direction of the respective said coil, from ends of said second sides adjoining said first sides toward a portion of said second sides between said ends of said second sides.

Claim 22 (New) The actuator of claim 21, wherein said wound line shape is a hexagon.

Claim 23 (New) An actuator for an optical pickup which includes a lens member having one surface for facing an optical disk, another surface on an opposite side thereof, a diametrically outermost peripheral edge and an optical axis, said actuator comprising:

a holder having

a holding portion positioned to face the optical disk and having a surface that holds a peripheral portion of the lens member from the opposite side of the other surface of the lens member, said holding portion having an outermost diameter smaller than the outermost peripheral edge of the lens member,

an opening portion diametrically inside of said holding portion forming an optical path about said optical axis of the lens member,

a focus coil bobbin portion around said optical path for the winding of a focus coil,
and

a track coil bobbin portion, having an axis parallel to sides of a winding line shape of said focus coil bobbin portion, for winding a track coil.

Claim 24 (New) An actuator for an optical pickup which includes a lens member having one surface for facing an optical disk, another surface on an opposite side thereof, a diametrically outermost peripheral edge and an optical axis, said actuator comprising:

a track coil for driving the lens member in a diametrical direction of the lens member inward or outward with respect to the optical disk; and

a holder positioned to face the optical disk and having a surface that holds a peripheral portion of the lens member from the opposite side of the other surface of the lens member, said holder having an outermost diameter smaller than the outermost peripheral edge of the lens member.

Claim 25 (New) The actuator of claim 24, wherein said holder supports a flange of the lens member.

Claim 26 (New) An optical pickup comprising:

a lens member having an outermost end portion in a diametrical direction of said lens member and an optical axis; and

a track coil for driving said lens member to move, in the diametrical direction, inward or outward with respect to an optical disk;

wherein at least part of said track coil is in a position closer to said optical axis of said lens member than said outermost end portion of said lens member.

Claim 27 (New) An optical pickup comprising:

a lens member;

magnets placed in such a manner that magnetic pole surfaces of said magnets face each other;

a focus coil for driving the lens member to move toward or away from an optical disk;

a track coil for driving the lens member in a diametrical direction of the lens member inward or outward with respect to an optical disk;

wherein at least one of said focus coil and said track coil has a wound line shape that includes first sides thereof facing and parallel to said magnetic pole surfaces of said magnets and second sides

thereof that interconnect ends of said first sides, said second sides each bulging outwardly, in a diametrical direction of the respective said coil, from ends of said second sides adjoining said first sides toward a portion of said second sides between said ends of said second sides.

Claim 28 (New) The optical pickup of claim 27, wherein said wound line shape is a hexagon.

Claim 29 (New) An optical pickup comprising:

 magnets placed in such a manner that magnetic pole surfaces of said magnets face each other;
 a lens member having an outermost end portion in a diametrical direction of said lens member and an optical axis;

 a focus coil for driving said lens member to move toward or away from an optical disk; and
 a track coil for driving said lens member in a diametrical direction of said lens member inward or outward with respect to an optical disk;

 wherein at least part of said track coil is in a position closer to said optical axis of said lens member than said outermost end portion of said lens member; and

 wherein at least one of said focus coil and said track coil has a wound line shape that includes first sides thereof facing and parallel to said magnetic pole surfaces of said magnets and second sides thereof that interconnect ends of said first sides, said second sides each bulging outwardly, in a diametrical direction of the respective said coil, from ends of said second sides adjoining said first sides toward a portion of said second sides between said ends of said second sides.

Claim 30 (New) The optical pickup of claim 29, wherein said wound line shape is a hexagon.

Claim 31 (New) An optical pickup comprising:

 a lens member having one surface for facing an optical disk, another surface on an opposite side thereof, a diametrically outermost peripheral edge and an optical axis; and

 a holder having

a holding portion positioned to face the optical disk and having a surface that holds a peripheral portion of said lens member from the opposite side of the other surface of the lens member, said holding portion having an outermost diameter smaller than said outermost peripheral edge of said lens member,

an opening portion diametrically inside of said holding portion forming an optical path about said optical axis of said lens member,

a focus coil bobbin portion around said optical path for the winding of a focus coil, and

a track coil bobbin portion, having an axis parallel to sides of a winding line shape of said focus coil bobbin portion, for winding a track coil.

Claim 32 (New) An optical pickup comprising:

a lens member having one surface for facing an optical disk, another surface on an opposite side thereof, a diametrically outermost peripheral edge and an optical axis;

a track coil for driving the lens member in a diametrical direction of the lens member inward or outward with respect to the optical disk; and

a holder positioned to face the optical disk and having a surface that holds a peripheral portion of said lens member from the opposite side of the other surface of the lens member, said holder having an outermost diameter smaller than said outermost peripheral edge of said lens member.

Claim 33 (New) The optical pickup of claim 32, wherein said lens member comprises a flange and said holder supports said flange.

Claim 34 (New) An apparatus for reading or recording information from or to an optical disk comprising:

an optical pickup for condensing light in order to read or record information, said optical pickup comprising a lens member having an outermost end portion in a diametrical direction of said

lens member and an optical axis and a track coil for driving said lens member to move, in the diametrical direction, inward or outward with respect to an optical disk;

wherein at least part of said track coil is in a position closer to said optical axis of said lens member than said outermost end portion of said lens member.

Claim 35 (New) The actuator of claim 18 further comprising a focus coil wound about the optical axis of the lens member.

Claim 36 (New) The actuator of claim 21 wherein said focus coil is wound about the optical axis of said lens member.

Claim 37 (New) The optical pickup of claim 26 further comprising a focus coil wound about the optical axis of the lens member.

Claim 38 (New) The optical pickup of claim 29 wherein said focus coil is wound about the optical axis of said lens member.

Claim 39 (New) The optical pickup of claim 34 further comprising a focus coil wound about the optical axis of the lens member.

Claim 40 (New) The actuator of claim 19, wherein said at least one of said focus coil and said track coil having said wound line shape includes at least said focus coil.

Claim 41 (New) The actuator of claim 21, wherein said at least one of said focus coil and said track coil having said wound line shape includes at least said focus coil.

Claim 42 (New) The actuator of claim 27, wherein said at least one of said focus coil and said track coil having said wound line shape includes at least said focus coil.

Claim 43 (New) The optical pickup of claim 29, wherein said at least one of said focus coil and said track coil having said wound line shape includes at least said focus coil.